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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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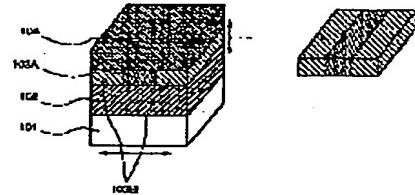
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## (54) ORGANIC LIGHT EMITTING ELEMENT

(57) Abstract:

**PROBLEM TO BE SOLVED:** To make feasible effective utilization of the light advancing in the parallel direction of an organic thin film, by a method wherein a structure exhibiting multiperiod reflection structure in line or dot in different refractive index is introduced in the organic thin film or the part thereof.

**SOLUTION:** A linear periodical structure is formed on a light emitting layer of an organic thin film light emitting element having a resonator structure in a film surface vertical direction using a translucent reflection film of a dielectric multilaminated thin film. That is, a translucent reflection film 102 laminated with a titanium oxide and a silicon oxide, an organic thin films 103A, 103B, a back metallic electrode 104 are successively formed on a glassy substrate 101. The interval of the optical distance of the adjacent lines of the organic thin films 103A, 103B is specified to be 1/4 of the light emitting wavelength. Accordingly, any loss can be reduced by the action of restoring a specific rate of light to the film in the periodical structure of the organic thin film further increasing the total amount of effective light advancing in front of the film, thereby enabling the output light emitting amount per input energy of the light emitting element to be increased.



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